

# RESEARCH, DEVELOPMENT & TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT

Wisconsin Department of Transportation  
DT1241 02/2011

## INSTRUCTIONS:

Research project investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

<b>WisDOT research program category:</b> <input type="checkbox"/> Policy research <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Pooled fund TPF#	Report period year: <b>2011</b> <input type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input checked="" type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)
Project title: <b>Evaluation of Thin Polymer Deck Overlays and Deck Sealers</b>			
Project investigator: <b>Habib Tabatabai</b>		Phone: <b>414-229-5166</b>	E-mail: <b>ht@uwm.edu</b>
Administrative contact: <b>Peg Lafky</b>		Phone: <b>(608)266-3663</b>	E-mail: <b>marguerite.lafky@dot.wi.gov</b>
WisDOT contact: <b>Travis McDaniel</b>		Phone:	E-mail: <b>Travis.McDaniel@dot.wi.gov</b>
WisDOT project ID: <b>0092-12-06</b>		Other project ID:	Project start date: <b>9/1/2011</b>
Original end date: <b>8/31/2014</b>		Current end date: <b>8/31/2014</b>	Number of extensions: <b>0</b>

## Project schedule status:

☒ On schedule      ☐ On revised schedule      ☐ Ahead of schedule      ☐ Behind schedule

## Project budget status:

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$166,992.00	\$12,087.00	\$12,087.00	7%	10%

## Project description:

This project explores the waterproofing capabilities, durability, and additional benefits of utilizing thin polymer overlays on bridge decks in Wisconsin. In this research we will compare performance of thin polymer overlays with conventional deck sealers, polymer modified asphaltic concrete overlays, as well as new and emerging technologies to determine the optimal bridge deck maintenance strategy to be employed by WisDOT.

## Progress this quarter (includes meetings, work plan status, contract status, significant progress, etc.):

A comprehensive review of literature was initiated (Task 1). All reports and papers obtained were catalogued and included in an electronic "End Note" database. Work on review and synthesis of obtained literature commenced. We were able to obtain a pre-publication final report of a NCHRP Synthesis study on a similar topic. This document provided valuable information and references. The NCHRP study also included a national survey regarding deck polymers. However, the survey analyses were limited. We have asked the PI for the NCHRP study to provide us with the raw data (which is not in electronic form) (Task 2). He has promised to provide us with the results from at least the Midwestern states in January 2012. These raw data will be converted into electronic form, analyzed and used in detail for the Task 2 survey planned for this study.

## Anticipated work next quarter:



Continue working on Task 1 and 2 and begin Task 3.

## Circumstances affecting project or budget:

None

**Attach / insert Gantt chart and other project documentation**

Year	2011				2012												2013												2014											
Month	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08				
Task 1																																								
Task 2																																								
Task 3											R			F																										
Task 4																																								
Task 5																																			R		F			

 Original Plan  
 Work Performed

**R** Submittal of draft report  
**F** Submittal of final report

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Staff receiving QPR:	Date received:
Staff approving QPR:	Date approved: